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SYSTEM-100 SPECIFICATION

MODEL-103

Input.

4 channel

Mic:

1.5mV/2.2K-ohm

Line-H:

75mV/15K-ohm

Line-L:

0.775V/more than 100K-ohm

Output.

Line Out:

2-ch Stereo Out 0.775V/1K-ohm

Speaker Output:

8-ohm x2

3W x2 (Max.)

Headphone:

8-ohm stereo Headphones

Echo.

To ECHO:

140mV

From ECHO:

20mV

Frequency Range:

20Hz -25,000Hz (-3dB) (LINE OUT)

S/N:

60db (Reverb off) (INPUT: LINE-L.H)

Crosstalk:

Better 58 dB

CONTROLS

Input Selector:

Mic, Line-H, Line-L. x4

Input Volume:

x4

Pan-Pot:

x4

Effect Selector:

Echo or Reverb. x4

Effect Volume:

X4

Master Volume:

x1

Balance:

x1

Echo Volume:

x1

Reverb Volume:

x1

Effect Pan-Pot:

x1

Monitor Volume:

x1

DIMENSIONS AND WEIGHT

Overall Size:

280m/m wide, 355m/m deep, 145m/m high.

Net Weight:

6.5Kg

POWER REQUIREMENT

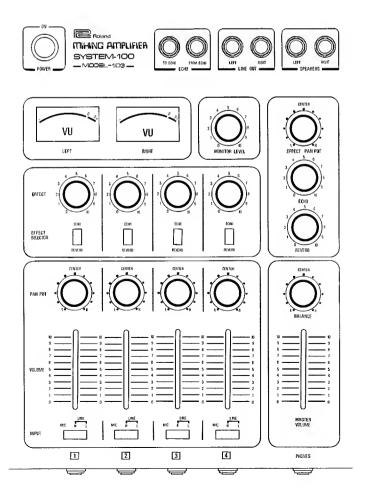
100 - 120V 50 - 60Hz

220 - 250V 50 - 60Hz

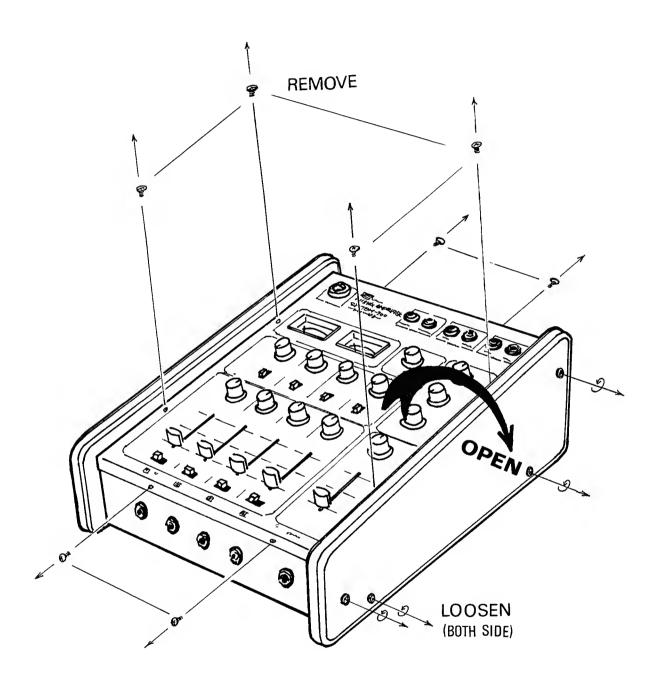
25 W max.

PANEL DIAGRAM

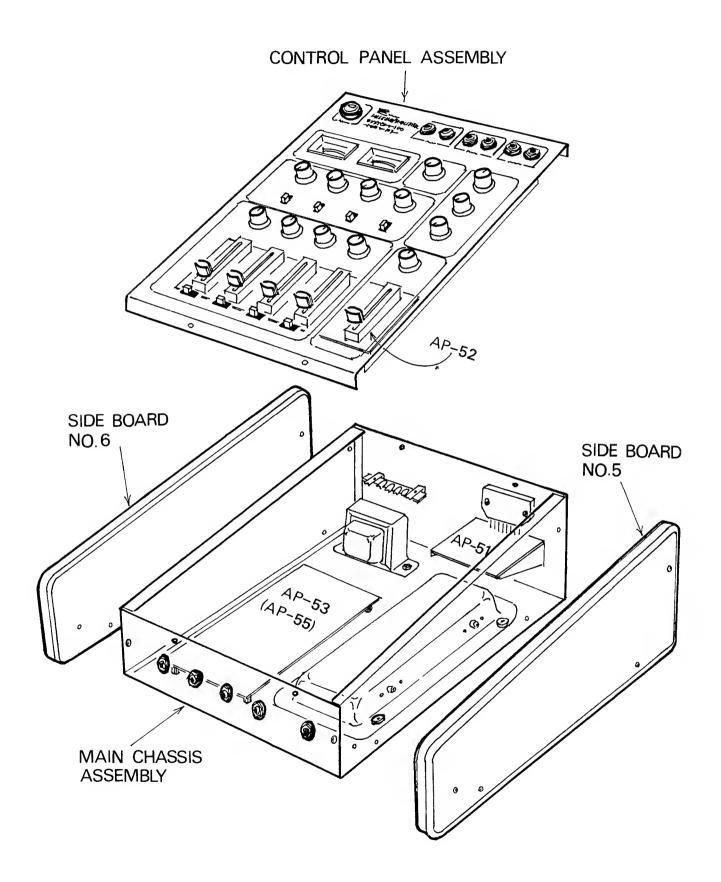




DISASSEMBLY

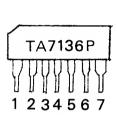


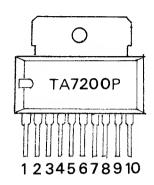
GENERAL LAYOUT

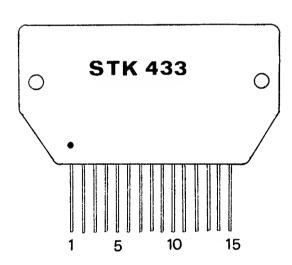


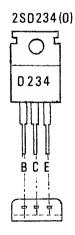
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SEMICONDUCTOR ELECTRODES



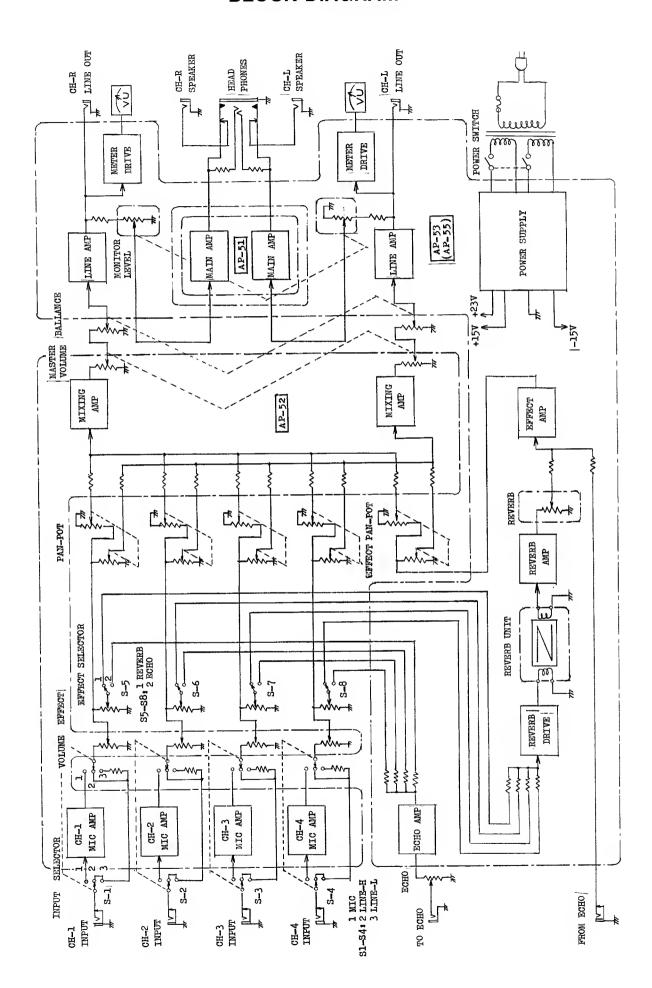




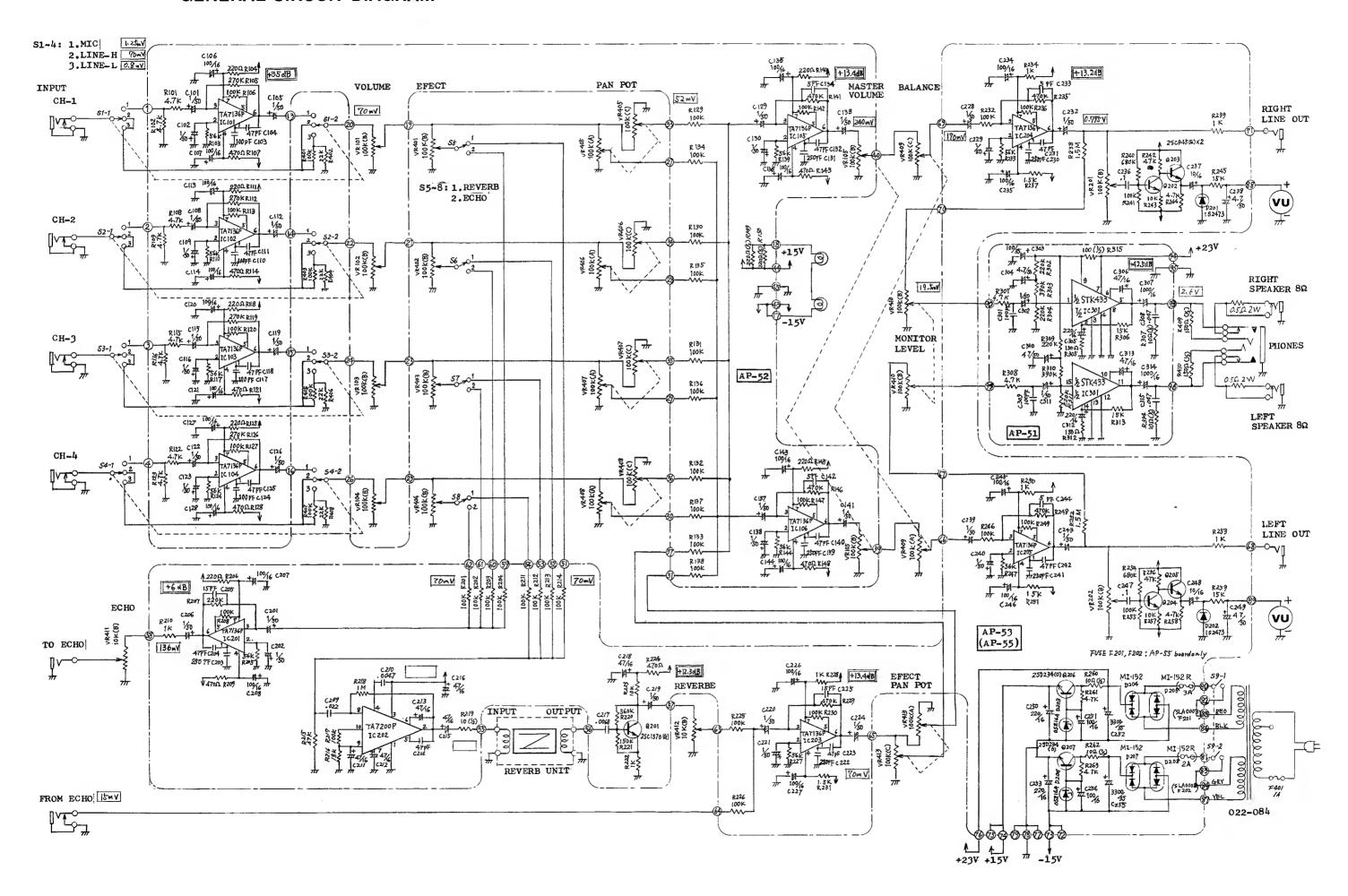


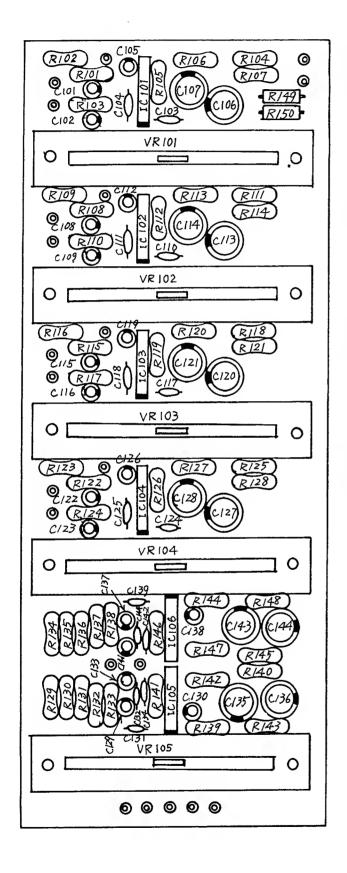


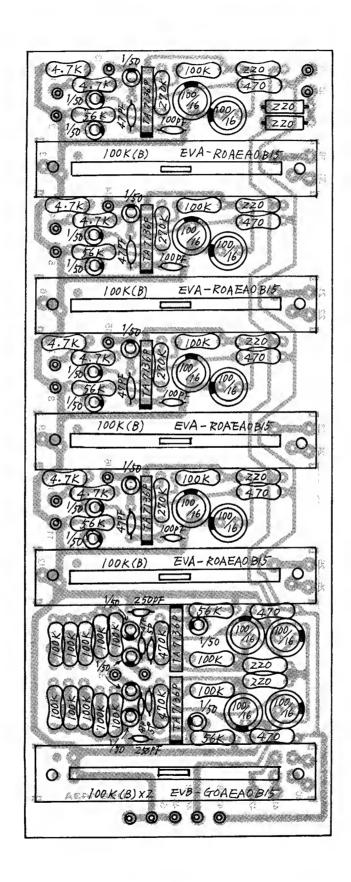
BLOCK DIAGRAM

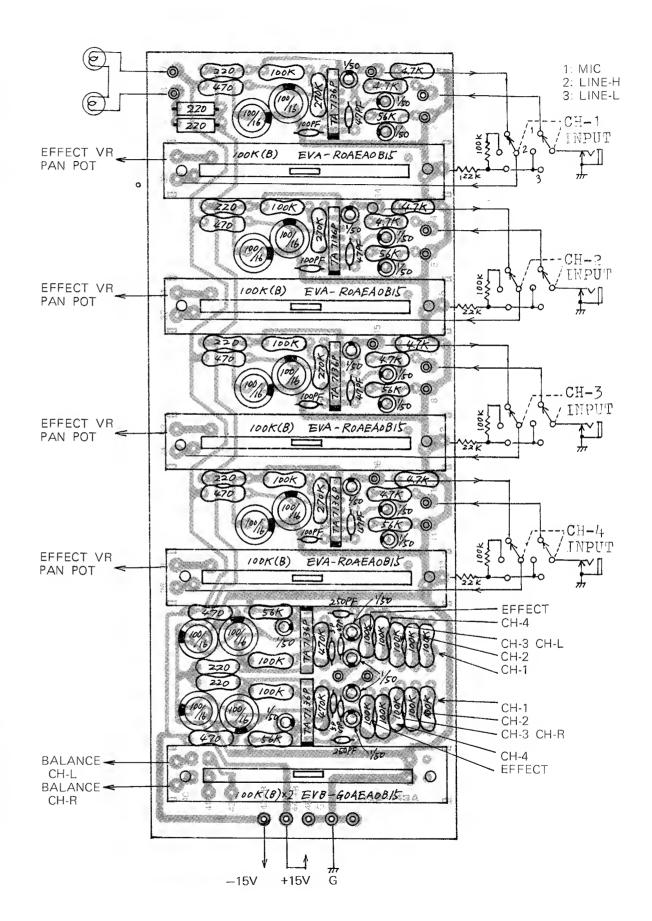


GENERAL CIRCUIT DIAGRAM

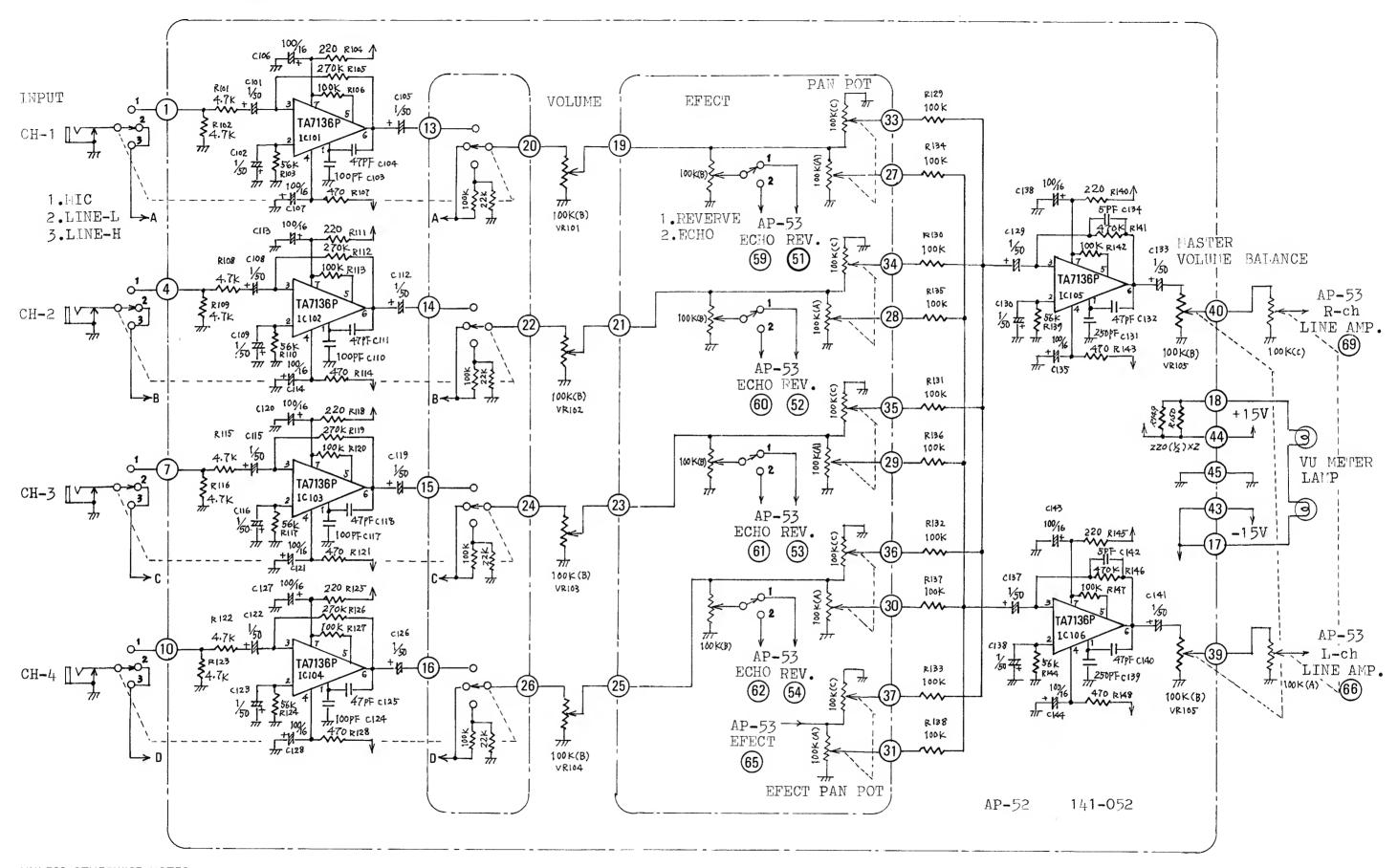




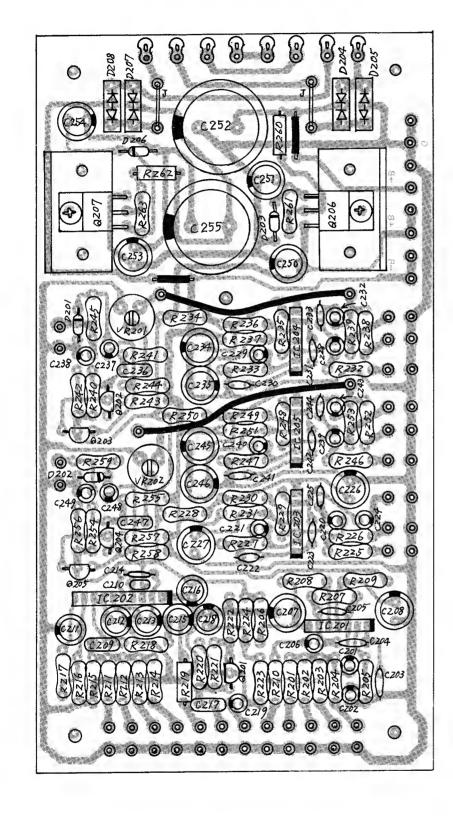




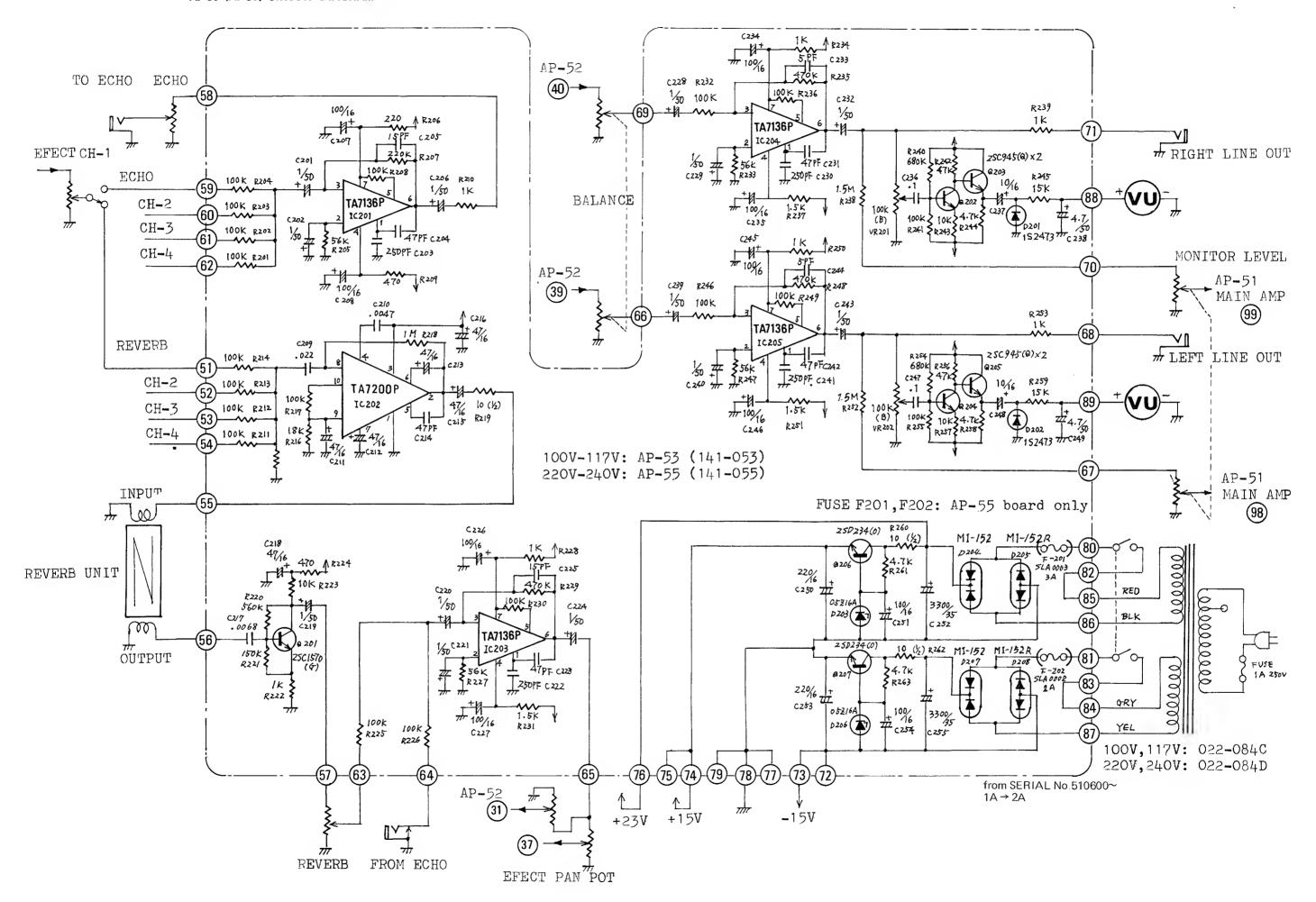
AP-52 CIRCUIT DIAGRAM

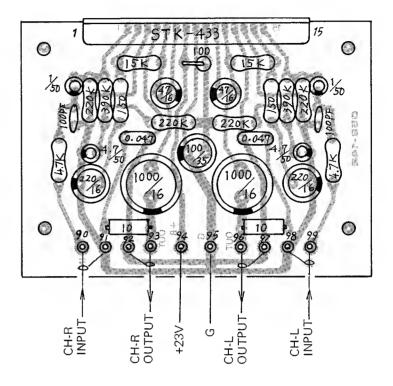


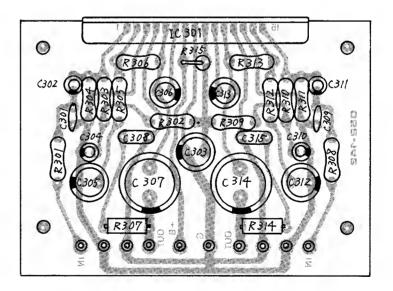
UNLESS OTHERWISE NOTES
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN MICROFARADS.
(or MFDS/VOLTS)

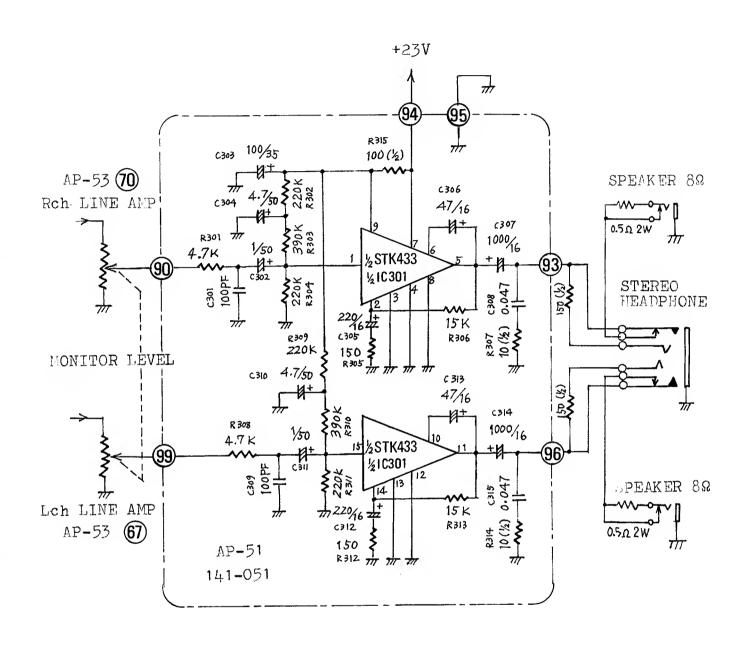


AP-53 (AP-55) CIRCUIT DIAGRAM









R301, R3081K-ohm → 4.7 k ohm from Serial No. 530800

UNLESS OTHERWISE NOTES
RESISTORS ARE IN OHMS.
CAPACITORS ARE IN MICROFARADS.
(or MFDS/VOLTS)

ADJUSTMENT

VU meter calibration

Connect the millivoltmeter to one of the line out jacks (R or L) and the audio generator to any of the input (jacks or terminals of PCB).

Set the audio generator for 1KHz sine wave and adjust controls for a reading of 0.775V; and adjust the trimmer Pot. (R or L VU meter ADJ.) for a reading of 0dB on the VU meter.

NOTE:

The waveform should remain distortion free. Follow the same steps for the other channel.

SYSTEM-100MODEL-103 PARTS LIST

AP-51 Board A	ssembly (141-051)										
052-142	Printed Circuit Board No.1	42 (Board only)									
020-047	IC STK-433	_									
044-102	Resistor	10 Ω	1/2W	±10%							
044-114	Resistor	100 Ω	1/2W	±10%							
035-024	Capacitor	0.047μF	50V	±10%	Mylar						
037-006	Capacitor	100pF	50V	±10%	Ceramic						
032-071	Capacitor	1μF	50V		Electrolytic						
032-074	Capacitor	4.7μ F	50V		Electrolytic						
032-036	Capacitor	47μ F	16V		Electrolytic						
032-065	Capacitor	100μF	35V		Electrolytic						
032-038	Capacitor	220μF	16V		Electrolytic						
032-041	Capacitor	1,000μF	16V		Electrolytic						
Resistors 1/4V	V are omitted.										
AD 52 Poard A	Assembly (141-052)										
052-142A	Printed Circuit Board No.1	43Δ (Board only)									
020-027	IC TA-7136P	45A (Board Only)									
030-027	Slide Potentiometer	100KΩ (B)	EVΔ-RΩ	AEAOB15							
	666 Slide Potentiometer Dual (AEAOB15							
030-10575577	Resistor	220Ω	1/2W	±10%							
037-014	Capacitor	5pF	50V	±10%	Ceramic						
	Capacitor	47pF	50V	±10%	Ceramic						
037-005	•	100pF	50V	±10%	Ceramic						
037-006	Capacitor Capacitor	250pF	50V	±10%	Ceramic						
037-007	•	250ρι 1μF	50V	-1070	Electrolytic						
032-071	Capacitor	100μF	16V		Electrolytic						
032-037 Resistors 1/4	Capacitor	Ιουμι	100		Licotrolytic						
Resistors 1/4	are offitted.										
AP-53 Board Assembly (141-053) 100V-120V											
AP-55 Board Assembly (141-055) 220V—250V											
052-144	Printed Circuit Board No.1										
020-027	IC TA-7136P	147 (Board only)									
020-027	IC TA-7200P										
017-013	Transistor	2SC945 (Q)									
017-015	Transistor	2SC1570 (GR)									
017-005	Transistor	2SD234 (O)									
018-062	Diode	MI-152 or ESAB01	-03 C								
018-063	Diode	MI-152 or ESABO1-03 C MI-152R or ESABO1-03 N									
018-014	Diode	1S2473	31 00 11								
018-014	Diode	05Z16A									
048-001	Heatsink No.1	002107									
028-007	Trimmer Potentiometer	100K Ω (B)	FVI-R4	XA00B15							
044-102	Resistor	10Ω	1/2W	±10%							
035-012	Capacitor	0.0047μF	50V	±10%	Mylar						
	Capacitoi	•			Mylar						
いった ひしん	Canacitor	0.0068#F	50\/								
035-014	Capacitor	0.0068µF	50V 50V	±10% +10%	•						
035-020	Capacitor	0.022μF	50V	±10%	Mylar						
035-020 035-028	Capacitor Capacitor	0.022μF 0.1μF	50V 50V	±10% ±10%	Mylar Mylar						
035-020 035-028 037-014	Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF	50V 50V 50V	±10% ±10% ±10%	Mylar Mylar Ceramic						
035-020 035-028 037-014 037-002	Capacitor Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF 15pF	50V 50V 50V 50V	±10% ±10% ±10% ±10%	Mylar Mylar Ceramic Ceramic						
035-020 035-028 037-014 037-002 037-005	Capacitor Capacitor Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF 15pF 47pF	50V 50V 50V 50V 50V	±10% ±10% ±10% ±10% ±10%	Mylar Mylar Ceramic Ceramic Ceramic						
035-020 035-028 037-014 037-002 037-005 037-007	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF 15pF 47pF 250pF	50V 50V 50V 50V 50V 50V	±10% ±10% ±10% ±10%	Mylar Mylar Ceramic Ceramic Ceramic Ceramic						
035-020 035-028 037-014 037-002 037-005 037-007 032-071	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF 15pF 47pF 250pF 1μF	50V 50V 50V 50V 50V 50V 50V	±10% ±10% ±10% ±10% ±10%	Mylar Mylar Ceramic Ceramic Ceramic Ceramic Electrolytic						
035-020 035-028 037-014 037-002 037-005 037-007	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	0.022μF 0.1μF 5pF 15pF 47pF 250pF	50V 50V 50V 50V 50V 50V	±10% ±10% ±10% ±10% ±10%	Mylar Mylar Ceramic Ceramic Ceramic Ceramic						

47μF

100μF

Capacitor

Capacitor

032-036

032-037

16V

16V

Electrolytic

Electrolytic

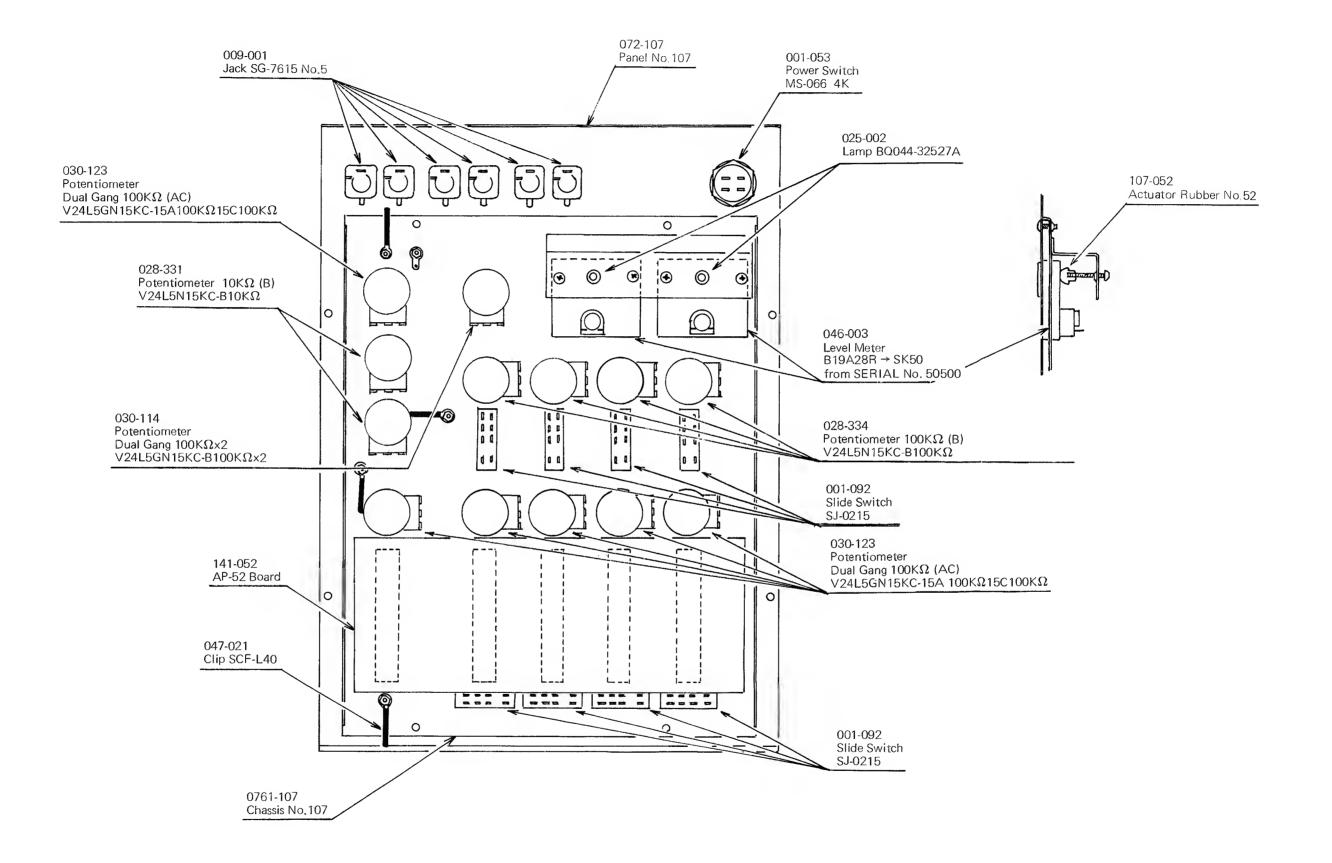
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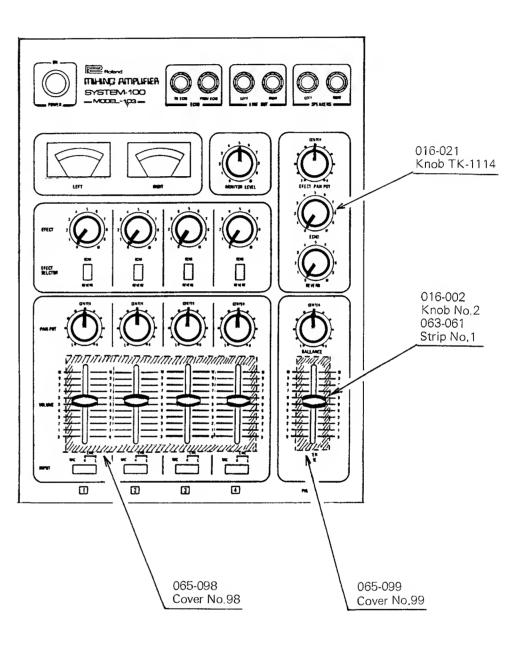
Capacitor	220μF	16V	Electrolytic							
Capacitor	$3,300 \mu F$	35V	ECET35R332SU							
W are omitted.										
Only										
Fuse 2A SLA0002										
Fuse 3A SLA0003										
Control Panel Assembly										
Resistor	22Κ Ω	1/4W	± 5 %							
Resistor	100K Ω	1/ 4 W	±5%							
Main Chassis Assembly										
Resistor	150 Ω	1/2W	±10%							
Resistor	0.47Ω	2W	±10%							
	Capacitor W are omitted. Only Fuse 2A SLA0002 Fuse 3A SLA0003 Assembly Resistor Resistor Assembly Resistor	Capacitor 3,300 μ F W are omitted. Only Fuse 2A SLA0002 Fuse 3A SLA0003 Assembly Resistor 22K Ω Resistor 100K Ω Assembly Resistor 150 Ω	Capacitor 3,300 μ F 35V W are omitted. Only Fuse 2A SLA0002 Fuse 3A SLA0003 Assembly Resistor 22K Ω 1/4W Resistor 100K Ω 1/4W Assembly Resistor 150 Ω 1/2W							

General Assembly

083-005 Side Board No.5 (Right) 083-006 Side Board No.6 (Left)

PARTS PICTURE





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